

Revision nr. 2

Dated 20/12/2019

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FLYTRIN 6.14

Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking.

1.1. Product identifier.

Product name. FLYTRIN 6.14

1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended use. Water-based micro-emulsion concentrate insecticide-acaricide for professional use

Residual and Knock-down effect

1.3. Details of the supplier of the safety data sheet.

Name. COLKIM S.r.I. Full address. Via Piemonte, 50

District and Country. 40064 OZZANO EMILIA (BO)

Italia

Tel. 051 / 799445 Fax. 051 / 797555

e-mail address of the competent person.

responsible for the Safety Data Sheet.

info@colkim.it

Product distribution by: COLKIM S.r.I. - Via Piemonte, 50 - 40064 OZZANO E. (BO)

1.4. Emergency telephone number.

For urgent inquiries refer to.

Contact a poison control center:

Poison Control Center	Address	Telephone Number		
CAV "Osp. Pediatrico Bambino Gesù"	P.zza Sant'Onofrio, 4 – 00165 Roma (RM)	06 68593726		
Az. Osp. Univ. Foggia	V.le Luigi Pinto, 1 – 71122 Foggia (FG)	0881 732326		
Az. Osp. "A. Cardarelli"	Via A. Cardarelli, 9 – 80131 Napoli (NA)	081 7472870		
CAV Policlinico "Umberto I"	V.le del Policlinico, 155 – 00161 Roma (RM)	06 49978000		
CAV Policlinico "A. Gemelli"	Largo Agostino Gemelli, 8 – 00168 Roma (RM)	06 3054343		
Az. Osp. "Careggi" U.O. Tossicologia Medica	Largo Brambilla, 3 – 50134 Firenze (FI)	055 7947819		
CAV Centro Nazionale di Informazione Tossicologica	Via Salvatore Maugeri, 10 – 27100 Pavia (PV)	0382 24444		
Osp. Niguarda Ca' Granda	P.zza Ospedale Maggiore, 3 – 20162 Milano (MI)	02 66101029		
Azienda Ospedaliera Papa Giovanni XXII	P.zza OMS, 1 – 24127 Bergamo (BG)	800883300		

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, a	cute toxicity. H400	Very toxic to aquatic life.



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category 1

Hazardous to the aquatic environment, chronic toxicity, category 1

H410

Very toxic to aquatic life with long lasting effects.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words: Warning

Hazard statements:

H351 Suspected of causing cancer.H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352

P308+P313

P333+313

P362+P364

IF ON SKIN: wash with plenty of water and soap.

IF exposed or concerned: Get medical advice / attention.

If skin irritation or a rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents and container in accordance with national regulation

Contains: TETRAMENTHRIN; PERMETHRIN

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Identification. Classification 1272/2008 (CLP).

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS. 34590-94-8 $19,5 \le x < 21$ Substance with a community workplace exposure limit.

EC. 252-104-2

INDEX. -

Reg. no. 01-2119450011-60

PERMETHRIN

CAS. 52645-53-1 6 Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Sens. 1 H317, Aquatic

Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=1000

EC. 258-067-9

INDEX. 613-058-00-2



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PIPERONYL BUTOXIDE

CAS. 51-03-6 EC. 200-076-7

INDEX. -

Reg. no. 01-219918969-16-0000

TETRAMETHRINE

CAS. 7696-12-0

EC. 231-711-6 INDEX. -

Reg. no. 05-2116382403-48-0000

4 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

1 Carc. 2 H351, Acute Tox. 4 H302, STOT SE 2 H371, Aquatic Acute 1

H400 M=100, Aquatic Chronic 1 H410 M=100

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed.

Specific information on symptoms and effects caused by the product are unknown.

For symptoms and effects caused by the contained substances, see chap. 11.

4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



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283 mg/kg

bw/d

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6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

It have not been set official limits of exposure for the product

8.1. Control parameters.

Regulatory References:

GBR United Kingdom EH40/2005 Workplace exposure limits ITA Italia Decreto Legislativo 9 Aprile 2008, n.81

EU OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;

Directive 2000/39/EC.

TLV-ACGIH ACGIH 2014

DIPROPYLENE GLYCOL MONOMETHYL ETHER										
Threshold Limit Value.										
Туре	Country	TWA/8h			STEL/15min					
		mg/m3	ppm	mg/m3	ppm					
WEL	GBR	308	50			SKIN.				
VLEP	ITA	308	50			SKIN.	SKIN.			
OEL	EU	308	50			SKIN.	SKIN.			
TLV-ACGIH		606	100	909	150	SKIN.				
Predicted no-effect concentration - PNEC.										
Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value for water, intermittent release Normal value of STP microorganisms				19 19 70,2 7,02 190 4168	mg/l mg/kg/d mg/kg/d mg/l mg/l					
Health - Derived no-effect	t level - DNEL / D									
		Effects on consumers.			Effects on workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic		
Oral.			VND	36 mg/kg bw/d						
Inhalation.			VND	37.2 mg/m3			VND	308 mg/kg		

121 mg/kg

hw/d

Legend:

Skin.

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND



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VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance liquid

Colour Straw-yellow/transparent

Odour characteristic Odour threshold. Characteristic Not available.

pH. 6,3

Melting point / freezing point. Not relevant. Initial boiling point. Not relevant. Boiling range. Not relevant. > 60 °C. Flash point. **Evaporation Rate** Not available. Flammability of solids and gases not applicable. Not applicable. Lower inflammability limit. Upper inflammability limit. Not applicable. Lower explosive limit. Not applicable. Upper explosive limit. Not applicable. Vapour pressure. Not relevant. Vapour density Not relevant. Relative density. 1,050 Kg/Lt

Solubility Emulsionable in water

Partition coefficient: n-octanol/water
Auto-ignition temperature.

Decomposition temperature.

Viscosity

Not available.

Not applicable
Not available.



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Explosive properties
Oxidising properties

Not applicable Not applicable

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react with: oxidising substances. When heated to decomposition releases: harsh fumes, zinc alloys.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

No episodes of damage to health due to exposure to the product are known. In any case it is recommended to operate in compliance with the rules of good industrial hygiene. The preparation may, in particularly sensitive individuals, cause slight health effects due to inhalation and / or cutaneous absorption and / or contact with the eyes and / or ingestion.

PIPERONYL BUTOXIDE

Oral toxicity: acute LD50 (rat): 4570 mg/Kg (males) 7220 mg/Kg (females)

Dermal acute toxicity (rabbit): LD50 > 2000 mg/Kg Acute inhalation toxicity: LC50 (rat) > 5,9 mg/L (4 h)

Irritability: non irritant

Cutaneous sensitization: not sensitizing .

TETRAMETHRINE

Oral LD50 (rat): > 2000 mg/Kg Cutaneous LD50 (rat): > 2000 mg/Kg Acute inhalation LC50 (rat): 5,63 mg/L .

11.1. Information on toxicological effects.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available



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ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:157,143 mg/l

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture:7142,858 mg/kg

LD50 (Dermal) of the mixture: Not classified (no significant component).

PIPERONYL BUTOXIDE

LD50 (Oral).4570 mg/kg ratto femmina

LD50 (Dermal).> 2000 mg/kg

LC50 (Inhalation).> 5,9 mg/l 4 h

TETRAMETHRINE

LD50 (Oral).> 2000

LD50 (Dermal).> 2000 mg/kg

LC50 (Inhalation).> 5,63 mg/l

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Oral).5000 mg/kg

LD50 (Dermal).9510 mg/kg

LC50 (Inhalation).3,35 mg/l/4h

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information.

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity.

PIPERONYL BUTOXIDE

LC50 - for Fish. 3,94 mg/l/96h SPECIE CYPRINODON VARIEGATUS

EC50 - for Crustacea. 0,51 mg/l/48h SPECIE DAPHNIA MAGNA

EC50 - for Algae / Aquatic Plants. 3,89 mg/l/72h SPECIE SELENASTRUM CAPRICORNUTUM

Chronic NOEC for Fish. 0,053 mg/l
Chronic NOEC for Algae / Aquatic Plants. 0,824 mg/l

TETRAMETHRINE

LC50 - for Fish. 0,033 mg/l/96h EC50 - for Crustacea. 0,47 mg/l/48h



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EC50 - for Algae / Aquatic Plants. 1,36 mg/l/72h

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LC50 - for Fish. 10000 mg/l/96h
EC50 - for Crustacea. 1919 mg/l/48h
EC50 - for Algae / Aquatic Plants. 6999 mg/l/72h
Chronic NOEC for Crustacea. 0,5 mg/l

PERMETHRIN

LC50 - for Fish. 0,001 mg/l/96h Oncorhynchus clarkii stomias

EC50 - for Crustacea. 0,0003 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. 1,6 mg/l/72h Anabaena inaequalis

12.2. Persistence and degradability.

PIPERONYL BUTOXIDE

Solubility in water. 28,9 mg/l

NOT rapidly biodegradable.

TETRAMETHRINE

Solubility in water. 0,25 mg/l

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water. 1000 - 10000 mg/l

Rapidly biodegradable.

12.3. Bioaccumulative potential.

PIPERONYL BUTOXIDE

Partition coefficient: n-octanol/water. 4,8 BCF. 91

TETRAMETHRINE

Partition coefficient: n-octanol/water. > 4,09

DIPROPYLENE GLYCOL MONOMETHYL ETHER Partition coefficient: n-octanol/water. 1,01

12.4. Mobility in soil. TETRAMETHRINE

Partition coefficient: soil/water. 3,35

DIPROPYLENE GLYCOL MONOMETHYL ETHER Partition coefficient: soil/water. 0,28

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.



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Waste transportation may be subject to ADR restrictions.

The CER codes recommended (which may change according to the use) are:

CER 16.03.05* – Organic waste containing hazardous substances.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

The CER codes recommended (which may change according to the use) are:

CER 15.01.10* - Packaging containing residues of or contaminated bydangerous substances.

SECTION 14. Transport information.

14.1. UN number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L,

is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to

IATA dangerous goods regulations.

14.2. UN proper shipping name.

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN; PIPERONYL BUTOXIDE)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN; PIPERONYL BUTOXIDE)
IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN; PIPERONYL BUTOXIDE)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group

ADR / RID. IMDG. IATA:

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 L Tunnel restriction code: (-)

Special Provision: -

IMDG: EMS: F-A, S-F Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 450 L Packaging instructions: 964

Pass.: Maximum quantity: 450 L Packaging instructions: 964



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Special Instructions:

A97, A158, A197

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant.

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso Category - Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point.

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

3

PERMETHRIN

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

MINISTRY OF HEALTH AUTHORIZATION N. 20289

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Carc. 2 Carcinogenicity, category 2
Acute Tox. 4 Acute toxicity, category 4
Skin Sens. 1 Skin sensitization, category 1

STOT SE 2 Specific target organ toxicity - single exposure, category 2
Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H351 Suspected of causing cancer.
H302 Harmful if swallowed.
H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.
H371 May cause damage to organs.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number



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- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

- 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

2, 3, 11; 15.

Legend of the information contained at section 9.1 of the datasheet:

Not Applicable: the data or the characteristic is not applicable to the product in question, due to its nature.

Not Relevant: the data or the characteristic is not relevant to determine the hazardous characteristics of the product.

Not Available: the data or the characteristic, even though it would be potentially relevant to determine the characteristics of the product, is not available.